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PATENT & TRADEMARK OFFICE

FORM PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)	Application Number
823.0103USU	09/942,272
Applicant: Zhang et al.	
Filing Date: August 29, 2001	Group Art Unit: 2834

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PM	4,999,819	03/12/91	Newnham et al.	367	157	
	5,276,657	01/04/94	Newnham et al.	367	157	
	5,729,077	03/17/98	Newnham et al.	310	328	

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JAN 29 2002
TC 2800 MAIL ROOM

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	Translation NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

PM	Xu et al. "Piezoelectric composites with high sensitivity and high capacitance for use at high pressures." *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control.* Vol. 38, No. 6, November 1991, 634-639.
	Rolt. "History of the flextensional electroacoustic transducer." *J. Acoust. Soc. Am.* 87(3), March 1990, 1340-49.
	Zhang et al. "A class V flextensional transducer: the cymbal." *Ultrasonics.* 37 (1999) 387-93.

EXAMINER	DATE CONSIDERED
	3/03/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	Translation NO

CONSIDERED SEARCHED

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

pvm	Dogan et al. "Composite piezoelectric transducer with truncated conical endcaps "cymbal"." *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control.* Vol. 44, No. 3, May 1997, 597-605.
	Butler et al. "A low frequency directional flextensional transducer and line array." *J. Acoust. Soc. Am.* 102(1), July 1997, 308-314.

EXAMINER	DATE CONSIDERED
Peter Mully	3/23/02

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